WHAT IS CLAIMED IS:

1. A compound of formula (I):

5 wherein

Y¹ is CH or N;

Q1 is selected from the group consisting of

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- (1) -OH, and
- $(2) NH_2;$

 Q^2 and Q^3 independently selected from the group consisting of

- (1) hydrogen, and
- 15 (2) halogen;

Ra is selected from the group consisting of

- (1) hydrogen,
- (2) -C₁₋₁₀ alkyl, wherein said alkyl is unsubstituted or substituted with one or more fluoro, and
- 20 (3) -C₃₋₈ cycloalkyl;

Rb is selected from the group consisting of

- (1) hydrogen,
- $(2) C_{1-10}$ alkyl,
- 25 (3) -C₁₋₃ alkyl-aryl, wherein said aryl is selected from the group consisting of phenyl and naphthyl,
 - (4) -C3-8 cycloalkyl,

wherein said cycloalkyl, alkyl and aryl are unsubstituted or substituted with

one or more

- (a) halo,
- (b) -OH,
- (c) -CN,
- (d) $-O-C_{1-10}$ alkyl,

(5) – $(CH_2)_n$ -NRcRd wherein Rc and Rd are selected from the group consisting of hydrogen and C_{1-10} alkyl, and n is 2, 3 or 4, and

- (6) -(CH2)n'-O-Re, wherein Re is selected from the group consisting of
- (a) C₁₋₁₀ alkyl,
 - (b) -C₀₋₃ alkyl-aryl, wherein said aryl is selected from the group consisting of phenyl and naphthyl,

wherein said alkyl and aryl are unsubstituted or substituted with one or more

- (i) halo,
- (ii) -OH,
- (iii) -CN,
- (iv) $-O-C_{1-10}$ alkyl,

and n' is 1, 2, 3 or 4;

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m is 1 or 2;

- R¹ is (1) aryl selected from the group consisting of phenyl and napthyl, or
 - (2) heteroaryl selected from the group consisting of pyrazinyl, pyrazolyl,

pyridazinyl, pyridyl, pyrimidinyl, pyrrolyl, tetrazolyl, furanyl, imidazolyl, triazinyl, pyranyl, thiazolyl, thienyl, thiophenyl, triazolyl, oxazolyl, isoxazolyl, thiazolyl, oxadiazolyl, indolyl, quinolinyl, isoquinolinyl, benzimidazolyl and benzoxazolyl,

- (3) -C1-10 alkyl, and
- (4) -C3-8 cycloalkyl,

wherein said aryl, heteroaryl, alkyl and cycloalkyl is unsubstituted or substituted with one or more

- (a) halo,
- (b) -OH,
- (c) -CN,

- (d) -O-C₁₋₁₀ alkyl,
- (e) $-C_{1-10}$ alkyl,
- (f) -C3-8 cycloalkyl,
- (g) aryl selected from the group consisting of phenyl and napthyl, or
- (h) heteroaryl selected from the group consisting of pyrazinyl, pyrazolyl, pyridazinyl, pyridyl, pyrimidinyl, pyrrolyl, tetrazolyl, furanyl, imidazolyl, triazinyl, pyranyl, thiazolyl, thienyl, thiophenyl, triazolyl, oxazolyl, isoxazolyl, thiazolyl, oxadiazolyl, indolyl, quinolinyl, isoquinolinyl, benzimidazolyl and benzoxazolyl;

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R² is selected from the group consisting of:

- (1) $(R^4-SO_2)N(R^7)$ -, wherein R^4 is
 - (a) $-C_{1-10}$ alkyl,
 - (b) -C3-8 cycloalkyl,

wherein said alkyl and cycloalkyl is unsubstituted or substituted with one or more

- (i) halo,
- (ii) -OH,
- (iii) -CN,
- (iv) -O-C₁₋₁₀ alkyl,
- (v) -C₁₋₁₀ alkyl,
- (vi) -C3-8 cycloalkyl,

(viii) aryl selected from the group consisting of phenyl and napthyl, or (viii) heteroaryl selected from the group consisting of pyrazinyl, pyrazolyl, pyridazinyl, pyridyl, pyrimidinyl, pyrrolyl, tetrazolyl, furanyl, imidazolyl, triazinyl, pyranyl, thiazolyl, thienyl, thiophenyl, triazolyl, oxazolyl, isoxazolyl, thiazolyl, oxadiazolyl, indolyl, quinolinyl, isoquinolinyl, benzimidazolyl and benzoxazolyl;

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and said aryl and heteroaryl is unsubstituted or substituted with one or more

- (A) halo,
- (B) -OH,
- (C) -CN,
- (D) $-O-C_{1-10}$ alkyl,

- (E) -C3-8 cycloalkyl, or
- (F) -C₁₋₁₀ alkyl,

(c) heteroaryl selected from the group consisting of pyrazinyl, pyrazolyl, pyridazinyl, pyridyl, pyrimidinyl, pyrrolyl, tetrazolyl, furanyl, imidazolyl, triazinyl, pyranyl, thiazolyl, thienyl, thiophenyl, triazolyl, oxazolyl, isoxazolyl, thiazolyl, oxadiazolyl, indolyl, quinolinyl, isoquinolinyl, benzimidazolyl and benzoxazolyl,

wherein said heteroaryl is unsubstituted or substituted with one or more

- (i) halo,
- (ii) -OH,
- (iii) -CN,
- (iv) -O-C₁₋₁₀ alkyl,
- (v) -C3-8 cycloalkyl, or
- (vi) -C₁₋₁₀ alkyl,

(d) $-(CH_2)_X$ -NRfRg wherein Rf and Rg are selected from the group consisting of hydrogen and C_{1-10} alkyl, and x is 0, 1, 2, 3 or 4, or Rf and Rg, together with the nitrogen atom to which they are attached form the group



wherein y is 1 or 2, Y^5 is -CHR²¹, -O- or NR²¹, wherein R²¹ is selected from the group consisting of;

- (i) hydrogen, and
- (ii) C₁₋₁₀ alkyl,

wherein said alkyl is unsubstituted or substituted with one or more

- (A) halo,
- (B) -OH,
- (C) -CN,

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- (D) $-O-C_{1-10}$ alkyl, or
- (E) -C₃₋₈ cycloalkyl;

R7 is selected from the group consisting of

- (a) hydrogen, and
 - (b) -C1-10 alkyl,
 - (c) aryl selected from the group consisting of phenyl and napthyl, or
 - (d) heteroaryl selected from the group consisting of pyrazinyl, pyrazolyl, pyridazinyl, pyridyl, pyrimidinyl, pyrrolyl, tetrazolyl, furanyl, imidazolyl, triazinyl, pyranyl, thiazolyl, thienyl, thiophenyl, triazolyl, oxazolyl, isoxazolyl, thiazolyl, oxadiazolyl, indolyl, quinolinyl, isoquinolinyl, benzimidazolyl and benzoxazolyl

wherein said alkyl, aryl and heteroaryl is unsubstituted or substituted with one or more

- (i) halo,
- (ii) -OH,
- (iii) -CN,
- (iv) -O-C₁₋₁₀ alkyl,
- (v) -C3-8 cycloalkyl,

(vi) aryl selected from the group consisting of phenyl and napthyl, or (vii) heteroaryl selected from the group consisting of pyrazinyl, pyrazolyl, pyridazinyl, pyridyl, pyrimidinyl, pyrrolyl, tetrazolyl, furanyl, imidazolyl, triazinyl, pyranyl, thiazolyl, thienyl, thiophenyl, triazolyl, oxazolyl, isoxazolyl, thiazolyl, oxadiazolyl, indolyl, quinolinyl, isoquinolinyl, benzimidazolyl and benzoxazolyl,

wherein said cycloalkyl, aryl or heteroaryl is unsubstituted or substituted with one or more

- (A) halo,
- (B) -OH,
- (C) -CN,
- (D) -O-C₁₋₁₀ alkyl,
- (E) -C₃₋₈ cycloalkyl, or
- (F) aryl selected from the group consisting of phenyl and napthyl;

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(e) $-(CH_2)_y$ '-NRhRi wherein Rh and Ri are selected from the group consisting of hydrogen and C_{1-10} alkyl, and y' is 1, 2, 3 or 4, or or Rh and Ri, together with the nitrogen atom to which they are attached from the group

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wherein y' is 1 or 2, Y⁶ is -CHR²², -O- or NR²², wherein R²² is selected from the group consisting of;

- (i) hydrogen, and
- (ii) C₁₋₁₀ alkyl,

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wherein said alkyl is unsubstituted or substituted with one or more

- (A) halo,
- (B) -OH,
- (C) -CN,
- (D) $-O-C_{1-10}$ alkyl, or
- (E) -C3-8 cycloalkyl,

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or \mathbb{R}^4 and \mathbb{R}^7 are linked together to form the group

(a)

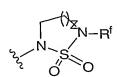
(b)



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wherein z is 1, 2 or 3; or

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wherein z is 1, 2 or 3

(2)

wherein R^8 is selected from the group consisting of

- (a) -CN,
- (b) hydrogen, and
- (c) tetrazolyl;

(3)

wherein o is 1, 2, 3 or 4; and

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(4)

wherein Y² is –NH=CH- or –CH=NH-;

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R³ is selected from the group consisting of

$$R^{6a}$$
 R^{6b}
 Y^{13}
 R^{5}
 R^{10}
 $R^$

wherein Y3 is CR6c or N;

 R^5 is C_{1-10} alkyl or C_{1-2} perfluoroalkyl;

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R6a, R6b, and R6c are independently selected from the group consisting of:

- (1) hydrogen,
- (2) halo,
- $(3) C_{1-10}$ alkyl,

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- (4) OH,
- (5) CN,
- (6) -C3-8 cycloalkyl, and
- $(7) O C_{1-10}$ alkyl;

R9 and R10 are independently selected from the group consisting of

- (1) hydrogen,
- (2) -C₁₋₁₀ alkyl, and
- (3) -C3-8 cycloalkyl,

wherein said alkyl and cycloalkyl are unsubstituted or substituted with one or more

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- (a) halo,
- (b) -OH,
- (c) -CN,
- (d) -O-C₁₋₁₀ alkyl,
- (e) -C3-8 cycloalkyl, and

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(f) -NRj Rk wherein Rj and Rk are C₁₋₁₀ alkyl;

or R^9 and R^{10} are joined together with the nitrogen atom to which they are attached to form

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wherein w is 1, 2 or 3, and

R23 is selected from the group consisting of

(a) hydrogen,

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- (b) -C1-10 alkyl,
- (c) -C3-8 cycloalkyl,
- (d) -C₂₋₁₀ alkenyl,
- (e) -C2-10 alkynyl,
- (f) -(CH2)p-phenyl,
- (g) -(CH₂)_p-heteroaryl, wherein said heteroaryl is selected from the group consisting of pyrazinyl, pyrazolyl, pyridazinyl, pyridyl, pyrimidinyl, pyrrolyl, tetrazolyl, furanyl, imidazolyl, triazinyl, pyranyl, thiazolyl, thienyl, thiophenyl, triazolyl, oxazolyl, isoxazolyl, thiazolyl, oxadiazolyl, indolyl, quinolinyl, isoquinolinyl, benzimidazolyl and benzoxazolyl,
- wherein p is 0 or 1, and

wherein said alkyl, alkenyl, alkynyl, cycloalkyl, phenyl and heteroaryl is unsubstituted or substituted with one or more

- (i) halo,
- (ii) -C₁₋₁₀ alkyl,
- (iii) -OH,
- (iv) -CN,
- (v) -C3-8 cycloalkyl, or
- (vi) $-O-C_{1-10}$ alkyl;

R11 is selected from the group consisting of

- (1) CH -
- $(2) CH_2 -,$
- (3) -O-, and
- 30 (4) $-NR^{17}$ -, provided that when R^{11} is -CH- the dotted line forms a bond and when R^{11} is $-CH_2$ -,
 - -O- or -NR17- the dotted line is absent;

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R17 is hydrogen or C_{1-10} alkyl, wherein said C_{1-10} alkyl is unsubstituted or substituted with one or more

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- (a) halo,
- (b) -OH,
- (c) -CN,

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- (d) -C₃₋₈ cycloalkyl,
- (e) -O-C₁₋₁₀ alkyl,
- (f) -(CH2)q-phenyl, wherein q is 1 or 2, and
- (g) -NR18R19, and

wherein R^{18} and R^{19} are independently selected from the group consisting of

- (i) hydrogen, or
- (ii) C₁₋₁₀ alkyl;

or R^{18} and R^{19} , together with the nitrogen atom to which they are attached, form the group



wherein q' is 1 or 2, Y^7 is $-CHR^{24}$, -O- or NR^{24} , wherein R^{24} is selected from the group consisting of;

- (c) hydrogen, and
- (d) C₁₋₁₀ alkyl,

wherein said alkyl is unsubstituted or substituted with one or more

- (i) halo,
- (ii) -OH,
- (iii) -CN,
- (iv) $-O-C_{1-10}$ alkyl, or
- (v) -C3-8 cycloalkyl;
- 30 R26 is selected from the group consisting of
 - (1) hydrogen,
 - (2) -C₁₋₃ alkyl;

R12 is selected from the group consisting of

- (1) hydrogen,
- (2) -C₁₋₁₀ alkyl, wherein said alkyl is unsubstituted or substituted with one or more

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- (a) halo,
- (b) -OH,
- (c) -CN,
- (d) -C3-8 cycloalkyl,
- (e) -O-C₁₋₁₀ alkyl, or

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- (f) -NH₂,
- (3) halo,
- (4) -C3-8 cycloalkyl,
- (5) aryl selected from the group consisting of phenyl and napthyl, and
- (6) heteroaryl selected from the group consisting of pyrazinyl, pyrazolyl, pyridazinyl, pyridyl, pyrimidinyl, pyrrolyl, tetrazolyl, furanyl, imidazolyl, triazinyl, pyranyl, thiazolyl, thienyl, thiophenyl, triazolyl, oxazolyl, isoxazolyl, thiazolyl, oxadiazolyl, indolyl, quinolinyl, isoquinolinyl,

benzimidazolyl and benzoxazolyl,

wherein said aryl and heteroaryl is unsubstituted or substituted with one or more

- (a) halo,
- (b) -OH,
- (c) -CN,
- (d) $-O-C_{1-10}$ alkyl,

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- (e) -C3-8 cycloalkyl, or
- (f) -C1-10 alkyl;

R13 is selected from the group consisting of

- (1) hydrogen,
- 30 (2) C_{1-10} alkyl, and
 - (3) -C3-8 cycloalkyl;

wherein said alkyl and cycloalkyl is unsubstituted or substituted with one or more

- (a) halo,
- (b) -OH,

- (c) -CN,
- (d) -C3-8 cycloalkyl,
- (e) $-O-C_{1-10}$ alkyl, and
- (f) $-C_{1-10}$ alkyl;

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R14 is selected from the group consisting of

- (1) $-C_{1-10}$ alkyl, and
- (2) -C₃₋₈ cycloalkyl;

wherein said alkyl and cycloalkyl is unsubstituted or substituted with one or more

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- (a) halo,
- (b) -OH,
- (c) -CN,
- (d) -C3-8 cycloalkyl,
- (e) -O-C₁₋₁₀ alkyl, or

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- (f) $-C_{1-10}$ alkyl;
- (3) $-(CH_2)_V-NR_{15}R_{16}$, wherein v is 2, 3 or 4, and

wherein R^{15} and R^{16} are independently selected from the group consisting of

- a) hydrogen, or
- b) C₁₋₁₀ alkyl, wherein said C₁₋₁₀ alkyl is

unsubstituted or substituted with one or more

- (i) halo,
- (ii) -OH,
- (iii) -CN,
- (iv) -C3-8 cycloalkyl, or
- $(v) O C_{1-10}$ alkyl;

or R15 and R16, together with the nitrogen atom to which they are attached, form the group



wherein s is 1 or 2, Y^4 is -CHR²⁴-, -O- or -NR²⁴-, wherein R²⁴ is selected from the group consisting of

- (i) hydrogen, and
- (ii) C₁₋₁₀ alkyl,

wherein said alkyl is unsubstituted or substituted with one or more

- (A) halo,
- (B) -OH,
- (C) -CN,
- (D) -O-C₁₋₁₀ alkyl, or
- (E) -C3-8 cycloalkyl,

4) -(CH₂)_r-phenyl, wherein r is 1, 2, 3, or 4, and

wherein said phenyl is unsubstituted or substituted with one or more

- (a) halo,
- (b) -OH,
- (c) -CN,
- (d) $-O-C_{1-10}$ alkyl,
- (e) -C3-8 cycloalkyl, or
- (f) -C1-10 alkyl;

or R13 and R14, together with the nitrogen atom to which they are attached, form the group



wherein u is 1 or 2, Y⁸ is -CHR²⁵-, -O- or -NR²⁵-, wherein R²⁵ is selected from the group consisting of

- (a) hydrogen,
- (b) C₁₋₁₀ alkyl,
- (c) -(CH2)t-phenyl,
- (d) -(CH₂)_t-heteroaryl, wherein said heteroaryl is selected from the group consisting of pyrazinyl, pyrazolyl, pyridazinyl, pyridyl, pyrimidinyl, pyrrolyl, tetrazolyl, furanyl, imidazolyl, triazinyl, pyranyl, thiazolyl, thienyl, thiophenyl, triazolyl, oxazolyl,

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isoxazolyl, thiazolyl, oxadiazolyl, indolyl, quinolinyl, isoquinolinyl, benzimidazolyl and benzoxazolyl,

wherein t is 0 or 1, and

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wherein said alkyl, phenyl and heteroaryl is unsubstituted or substituted with one or more

- (i) halo,
- (ii) $-C_{1-10}$ alkyl,

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- (iii) -OH,
- (iv) -CN,
- (v) -C3-8 cycloalkyl, or
- (vi) $-O-C_{1-10}$ alkyl;

and pharmaceutically acceptable salts thereof.

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- 2. The compound of Claim 1 wherein Ra and Rb are both hydrogen.
- The compound of Claim 1 wherein R^a is hydrogen and R^b is C₁₋₁₀ alkyl.

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of

- 4. The compound of Claim 1 wherein m is 1 and R¹ is selected from the group consisting
 - (1) phenyl, unsubstituted or substituted in one or two positions with halo; and
 - (2) thienyl.

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- 5. The compound of Claim 1 wherein R^2 is $(R^4-SO_2)N(R^7)$ -.
- 6. The compound of Claim 5 wherein R4 and R7 are each C₁₋₆alkyl.
- 7. The compound of Claim 1 wherein R^3 is (1)

wherein Y³ is CHR6c, R⁵ is methyl, R^{6a} and R^{6c} are hydrogen and R^{6b} is fluoro.

8. The compound of Claim 1 wherein R^3 is (1)

$$R^{6a}$$

$$R^{6b}$$

$$Y^{3}$$

$$R^{5}$$

$$R^{5}$$

- 5 Y^3 is N, R^5 is C_{1-2} perfluoroalkyl, and R^{6a} and R^{6b} are hydrogen.
 - 9. The compound of Claim 1 wherein R^3 is (2)

and R^9 and R^{10} are each unsubstituted C_{1-10} alkyl, or R^9 and R^{10} are joined together with the nitrogen atom to which they are attached to form attached to form

wherein w is 1;

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R23 is -(CH₂)_p-phenyl or -(CH₂)_p-heteroaryl, wherein said heteroaryl is selected from the group consisting of pyrazinyl, pyrazolyl, pyridazinyl, pyridyl, pyrimidinyl, pyrrolyl, tetrazolyl, furanyl, imidazolyl, triazinyl, pyranyl, thiazolyl, thienyl, thiophenyl, triazolyl, oxazolyl, isoxazolyl, thiazolyl, oxadiazolyl, indolyl, quinolinyl, isoquinolinyl, benzimidazolyl and benzoxazolyl,

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wherein the phenyl and heteroaryl are unsubstituted or substituted with one or more chloro, and p is 0.

10. The compound of Claim 1 wherein R³ is (3)

$$R^{12}$$
 R^{11}

 R^{11} is NR^{17} wherein R^{17} is hydrogen or $C_{1\text{--}3}$ alkyl, and R^{12} is hydrogen or methyl.

11. The compound of Claim 1 wherein R³ is (4)

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 R^{13} is hydrogen and R^{14} is -(CH₂)_V-NR¹⁵R¹⁶ wherein v is 2 and R^{15} and R^{16} are each C₁₋₁₀ alkyl, which is unsubstituted or substituted with -OH, -CN or -OCH₃.

12. The compound of Claim 1 wherein \mathbb{R}^3 is (4)

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wherein R13 and R14, together with the nitrogen atom to which they are attached, form the group

- wherein u is 1 or 2, Y^8 is -CHR²⁵-, -O- or -NR²⁵-.
 - 13. The compound of Claim 1 which is a compound of formula (II)

wherein Q1, Q2, Q3, Ra, Rb, R1, R2, R12, R17, R26 and m are as defined in Claim 1, and pharmaceutically acceptable salts thereof.

14. The compound of Claim 1 which is a compound of formula (III)

$$R^{14}$$
 R^{14}
 R^{13}
 R^{13}
 R^{13}
 R^{13}
 R^{13}
 R^{13}
 R^{13}

wherein Q1, Q2, Q3, Ra, Rb, R1, R2, R13, R14 and m are defined as in Claim 1, and pharmaceutically acceptable salts thereof.

15. The compound of Claim 1 which is a compound of formula (IV):

$$\begin{array}{c|c}
R^2 & Q^2 & R^a \\
\hline
 Q^3 & Q^4 & Q^4 \\
\hline
 Q^4 & Q^4 & Q^4 \\
\hline
 Q^1 & Q^1 & Q^4 & Q^4 \\
\hline
 Q^1 & Q^2 & Q^4 & Q^4 & Q^4 \\
\hline
 Q^1 & Q^2 & Q^4 & Q^4 & Q^4 & Q^4 \\
\hline
 Q^1 & Q^2 & Q^4 & Q^4 & Q^4 & Q^4 & Q^4 & Q^4 \\
\hline
 Q^1 & Q^2 & Q^4 &$$

wherein Q1, Q2, Q3, Ra, Rb, R1, R2 and m are as defined in Claim 1, and R3 is (1) or (2) as defined in Claim 1, and pharmaceutically acceptable salts thereof.

16. A compound of claim 1 is selected from the group consisting of

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| N SO ₂ Me N H NH ₂ N = | O, S, H N H OH |
|---|-------------------|
| N H OH | N H OH |
| N OH OH OH | ON S H N H OH F |
| O H N H P F | N H OH CI |

| N N H OH | N H O H N |
|---------------------------------------|--|
| N N H OH H | |
| | |
| O O O O O O O O O O O O O O O O O O O | O S H N H O H |
| O, S, O | O, O N |

| | O S O H O H F F |
|---------------------------|--|
| F N H N OH S | D D D D D D D D D D D D D D D D D D D |
| O, O N, S H N OH | HO N H N H OH |
| | O, S, O N, S, O HO N, S, O H N N 1.1. OH |
| | O S H N H OH |

| | N H N H |
|--|-------------------------|
| O N S NH ₂ | N H NH ₂ |
| H NH2 | H N H H |
| O D H OH N H N H N H N H N H N H N H N H N | H NH ₂ N H O |

 NH_2

| MeO ₂ S. H H OH N E Ph | MeO ₂ S. H N N E O O S |
|---|------------------------------------|
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | OSO H N = OH Ph |
| N OH OH | |
| O NH OH | N OH OH |
| CN ONH OH | CN OH ON OH F |

| ON NH OH | F OH OH |
|---|-----------------------|
| F CN HN OH | CN H H OH F F S |
| CN N O O S | N HN OH |
| NC H OH | O S N OH OH S |
| O D H O H O H O H O H O H O H O H O H O | O SO H OH N |

| NH ₂ O | NH ₂ F |
|--|--|
| ON NH2 F | NH ₂ F |
| NH ₂ ONH | NH ₂ |
| NH ₂ | OSON NH2 N-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M |

| NH ₂ | NH ₂ |
|---|-----------------|
| NH ₂ NH ₂ F | NH ₂ |
| NH ₂ | NH ₂ |
| HN NH2 FF | NH ₂ |
| NH ₂ | NH ₂ |

and pharmaceutically acceptable salts thereof.

17. A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 1 and a pharmaceutically acceptable carrier.

- A method for inhibition of β-secretase activity in a mammal in need thereof which
 comprises administering to the mammal a therapeutically effective amount of a compound of Claim 1.
 - 19. A method for treating Alzheimer's disease in a patient in need thereof comprising administering to the patient a therapeutically effective amount of a compound of Claim 1.
- 20. A method for ameliorating or controlling Alzheimer's disease in a patient in need thereof comprising administering to the patient a therapeutically effective amount of a compound of Claim 1.

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